

SYSTEM AND METHOD FOR RAPIDLY CUSTOMIZING  
A DESIGN AND REMOTELY MANUFACTURING  
BIOMEDICAL DEVICES USING A COMPUTER SYSTEM

ABSTRACT OF THE DISCLOSURE

A method of rapid design and manufacture of biomedical devices using electronic data and modeling transmissions, wherein such transmissions are transferred via a computer network. The method includes capturing patient-specific diagnostic imaged data, converting the data to a digital computer file, transmitting the converted data via the computer network to a remote manufacturing site, converting the computer file into a multi-dimensional model and then into machine instructions, and constructing the biomedical implant. The present invention is further directed to the preparation of rapid-prototyped pharmaceutical forms, including oral dosage pills and implantable pharmaceuticals, with transmittal of such data over computer networks being used to significantly increase the cost effectiveness and responsiveness, and is further directed to the use of a website to perform various client-interaction and follow-up tasks.